

MAMMOMAT Balance

SP

Maintenance Protocol

Customer:

Department:

Room:

Address:

Contact person:

Telephone:

Cust. Specific n°:

Customer n°

The Maintenance Instructions
SPB7-115.831.01...
are required for this protocol

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English

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Chapter	Page	Revision
all	all	01

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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Information regarding the maintenance protocol

SIEMENS office:

Address:

Region:

Country:

Contact person:

Telephone:

CSE in charge:

Telephone:

Information regarding the maintenance protocol

The maintenance protocol serves as a quality record of the maintenance performed

Maintenance must be performed in the prescribed intervals.

The maintenance results must be entered in the maintenance protocol.

The page numbers in the check list at the end of the protocol refer to the corresponding pages in the associated maintenance instructions (refer to the cover sheet).

The maintenance protocol must be completely filled out by the CSE in charge.

In other words,

- All fields must be completed. If a field does not apply to the system or if there is no information to be entered, enter 'n.a. ' in the field.
- The customer number must be entered in the header of every page (Cust.- No.) so that every page is assigned to a customer.
- In case of complaints, enter the product identification (IVK = WE) for the component as well as the type of complaint in the 'Open items' table provided. Record the open items in the table with the date and signature. Correction of these open points should also be documented in this table along with the date and signature. If there are no open points, draw a line through the entire table and enter the date/initials.
- Enter the values measured during the maintenance in the space / table provided.
- After completing the maintenance, fill out page 3 of the protocol and sign it.

Processing and archiving the maintenance protocol:

The maintenance protocol is considered a record and must be archived. It must be filed after completion of maintenance in the corresponding Register of the Maintenance binder. If necessary, a copy should be distributed to the customer.

System Status	
System:	Ser.No.:
Software Version	
Maintenance contract no.:	
Type of contract:	

The equipment has no problems Results of the image quality test showed no deviations from the required reference values.	0
The equipment has minor problems that do not restrict its use. However they should be corrected as a preventive measure. Results of the image quality test showed no deviations from the required reference values.	0
The equipment has major problems. For safety reasons, the equipment must not be used until the problem has been resolved.	0

Location	
Date	
Name of the CSE	
Signature	

Explanation of the acronyms:

Abbrev.	Explanation
SI	Safety Inspection
SIE	Safety Inspection Electrical Safety
SIM	Safety Inspection Mechanical Safety
PM	Preventive Maintenance
PMP	Preventive Maintenance Preventive Parts Exchange, External Inspection, etc.
PMA	Preventive Maintenance Adjustments
PMF	Preventive Maintenance Function, Operating-Value Check
Q	Quality Check
QIQ	Quality Check Image
QSQ	Quality Check System
SW	Software Maintenance
CSE	Customer Service Engineer
Cust. N°	Customer Specific Number
IVK	Installed Volume Component

Maintenance Protocol

Cust. N°:.....

Open points

[illegible]

Measurement devices

Please enter all measuring devices used for maintenance in the table.

Measurement Device	Type	Serial No.	Date of use	Calibrated Until

		OK	not OK	n.a.	Page
1	General information				5
1.1	Training				5
1.2	Required documents				5
1.3	Required tools, measurement and auxiliary devices				5
1.4	Required lubricants				5
1.5	Text emphasis				6
1.6	Safety Information and Preventive Measures				7
1.7	Explanation of abbreviations				8
1.8	Symbols				8
2	System				9
	SIM Radiation protection	o	o	o	9
	SIM C-arm – attachment and handles	o	o	o	9
	SIM Tube cover	o	o	o	9
	SIM Table retain	o	o	o	9
	SIE Cable	o	o	o	9
	PMF Rotation Movements	o	o	o	9
3	Column stand				10
	SIM C-arm carriage wheels	o	o	o	10
	SIM C-arm carriage rails	o	o	o	10
	SIM Gas spring	o	o	o	10
	SIM Vertical C-arm drive	o	o	o	10
	SIE Limit switches	o	o	o	10
	PMF Vertical travel	o	o	o	10
4	Compression system				11
	SIM Testing the manual movement	o	o	o	11
	SIM Testing compression plate support	o	o	o	11
	SIM Testing lexan of compression plates for wear and tear	o	o	o	11
	SIM Check foot pedal switches functionality	o	o	o	11
	SIM Testing magnification support fixation	o	o	o	11
	SIM Testing the “Compression” force	o	o	o	11
	SIM Testing the “Decompression” force	o	o	o	11
	PMF Compression Thickness Display	o	o	o	11
5	Rotating anode starter				12
	PMF Protection circuit check	o	o	o	12
	PMF Control LED (brake enabled)	o	o	o	12
	PMF Control LED (brake disabled)	o	o	o	13
	PMF Brake disabling for heavy use	o	o	o	13

		OK	not OK	n.a.	Page
6	Filament				14
	PMF Anode current check	o	o	o	14
	PMF Control LED	o	o	o	14
7	High tension power supply				15
	PMF KV waveform				15
	PMF Internal kV check (TP1/TP2)	o	o	o	15
	PMF External kV check	o	o	o	16
	PMF Checking and adjustment points	o	o	o	17
	PMF Control LED	o	o	o	17
8	Miscellaneous				18
	SIE Testing the radiation field / light field	o	o	o	18
	PMF Automatic filter selection	o	o	o	18
	PMF RX signal lamp	o	o	o	18
	PMF AEC Detector test	o	o	o	18
	SIE Calculated Dose test	o	o	o	19
	PMF Table functions and safety locks	o	o	o	19
	PMF Blocking exposure release	o	o	o	19
	SIE Emergency STOP	o	o	o	19
	SIE Exposure and error data recorder	o	o	o	19
	SIE Delete Exposure and error memory	o	o	o	19
	SIE Note exposure counters	o	o	o	19
	QIQ Testing film O.D. linearity	o	o	o	19
	QIQ Testing image quality	o	o	o	19
	QIQ Phantom exposure	o	o	o	20
9	Final tests				21
	PMF Operating problems	o	o	o	21
	PMP Covers	o	o	o	21
	SIE Protective conductor test	o	o	o	21
	PMP Cleaning / Damaged paint	o	o	o	21
	QSQ Final test exposure	o	o	o	21
10	Changes to previous version				22

Maintenance Protocol

Cust. N°:.....

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